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(71) Applicant (for all designated States except US): THE UNIVERSITY OF MANCHESTER [GB/GB]; Oxford Road, Manchester M13 9PL (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FREEMONT,

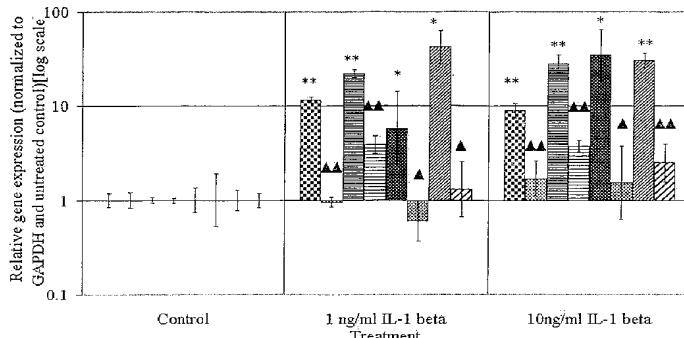
Anthony, John [GB/GB]; Division of Laboratory and Regenerative Medicine, School of Medicine, Stopford Building, Oxford Road, Manchester M13 9PT (GB). HOYLAND, Judith, A. [GB/GB]; Division of Laboratory and Regenerative Medicine, School of Medicine, Stopford Building, Oxford Road, Manchester M13 9PT (GB). LE-MAITRE, Christine [GB/GB]; 219 Moorfield Avenue, Denton, Manchester M34 7TS (GB). RICHARDSON, Stephen [GB/GB]; 89 Minehead Avenue, Withington, Manchester M20 1EP (GB).

(74) Agent: BANFORD, Paul, Clifford; Marks & Clerk, Sussex House, 83-85 Mosley Street, Manchester M2 3LG (GB).

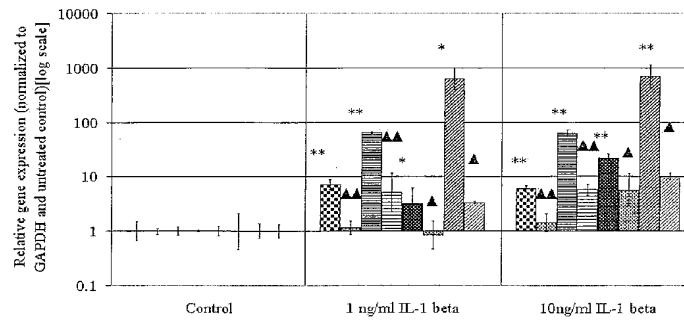
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(54) Title: TREATMENT OF SPINAL CONDITIONS



(57) Abstract: The invention relates to isolated mesenchymal stromal stem cell (MSSC) that has been differentiated in vitro towards, or to, an intervertebral disc (IVD) cell phenotype for use as medicaments. The cells may be used to treat spinal conditions characterized by degeneration of the intervertebral disc. The cells may also be genetically transformed with an exogenous gene coding for a protein that reduces degeneration of an intervertebral disc.



- |                            |                                   |
|----------------------------|-----------------------------------|
| ■ Normal NP uninfected     | ■ Normal NP + IL-1 Ra MOI 300     |
| ■ Degenerate NP uninfected | ■ Degenerate NP + IL-1 Ra MOI 300 |
| ■ Normal AF uninfected     | ■ Normal AF + IL-1Ra MOI 300      |
| ■ Degenerate AF uninfected | ■ Degenerate AF + IL-1 Ra MOI 300 |

WO 2005/085421 A3



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